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	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
	09/965,538	09/27/2001	Takayo Katsuki	36856.550 8080		
	75	590 06/24/2005		EXAMINER		
	Keating & Bennett LLP			EASTHOM, KARL D		
	Suite 312 10400 Eaton Place Fairfax, VA 22030			ART UNIT	PAPER NUMBER	
				2832		
				DATE MAILED: 06/24/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
		KATSUKI ET AL.				
Office Action Summary	09/965,538					
omeo neuem cumma, y	Examiner	Art Unit				
The MAILING DATE of this communication app	Karl D. Easthom	2832				
Period for Reply	ears on the cover sheet with the t	correspondence address	<b></b>			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tir within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed ys will be considered timely. I the mailing date of this commur D (35 U.S.C. § 133).	ication.			
Status						
1) Responsive to communication(s) filed on 18 M	ay 200 <u>5</u> .					
2a)⊠ This action is <b>FINAL</b> . 2b)☐ This	action is non-final.					
3) Since this application is in condition for allowar	nce except for formal matters, pro	osecution as to the me	its is			
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4) Claim(s) <u>1,3-10,21,22 and 24-28</u> is/are pending	☑ Claim(s) <u>1,3-10,21,22 and 24-28</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdraw	vn from consideration.	٠				
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1,3-10,21,22 and 24-28</u> is/are rejected	d.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ acc	epted or b) objected to by the	Examiner.				
Applicant may not request that any objection to the	- · ·					
Replacement drawing sheet(s) including the correct						
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	e Action or form PTO-1	52.			
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a	ı)-(d) or (f).				
a)⊠ All b)□ Some * c)□ None of:						
<ol> <li>Certified copies of the priority documents</li> </ol>	s have been received.					
2. Certified copies of the priority document						
3. Copies of the certified copies of the prior		ed in this National Stag	je			
application from the International Bureau  * See the attached detailed Office action for a list		ed				
Occ the attached detailed Office action for a list	or the continue copies not receive	<del></del> -				
Attachment(s)						
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) Notice of Informal I	Patent Application (PTO-152	)			
Paper No(s)/Mail Date	6) Other:					
S. Patent and Trademark Office						

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1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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2. Claims 1, 3-4, 7-10, 21-22, and 24-26 are rejected under 35 U.S.C 103(a) as obvious over Camp in view of Becker. Camp discloses the claimed invention at Figs. 2 and 4. The junction portion is where the top of the U touches the thermistor, with the vertical portion one or both of the legs of the U shaped channel portion. The legs are bent vertically in a downward direction since they are bent vertically, and extend in a downward direction. The lower end portion is the middle horizontal portion of the U, and could include the portions 14 and 15 if "end" requires the end of the terminal to be included. In claim 3, the overlap is seen. In claim 4, the thermistor is round. In claim 7, the portion 15 meets the claim. In claim 8, the junction portion is only near the center since it is in the periphery, and near is a term of degree. In claim 9, the upper vertical leg portion is longer. In claim 10, the bent pm is the pm where 13 points in Fig. 2. Claims 21-26 are similar to claims above. discloses a bent vertical portion in the vicinity of the center at the sole figure, as typical in the thermistor arts in order to ensure securing terminals to a thermistor like that of Camp, so that such an arrangement would have been obvious, where for example, the terminals are made to accommodate larger thermistors, or are made smaller to decrease material costs, or are put at center of a device for firmly securing same to the device as suggested at col. 2, lines 5-10 of Becker, where the whole

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horizontal portion of the lead is secured in this fashion, or which would have been obvious to ensure that a load is better supported since any first year physics students would realize that the object would be better supported with the supporting structure centering the weight. Further, the device would take up less area with such a mounting, so that same would have been suggested.

Claims 1, 3-4, 7-10, 21-22, and 24-26 are rejected under 35 U.S.C. 103(a) as 3. being unpatentable over Rehnelt in view of Camp and Becker et al. Rehnelt discloses at Fig. 2 all of the claimed invention except explicit mention of the electrodes (claims 1, 21), and the lower end portion of claims 1, 7, 24 and 25 (termed horizontal connection) portion). Camp discloses electrodes for contact purposes at col. 2, lines 19-25 so that such an electrode is obvious, and discloses at col. 2, lines 20-65 horizontal connection portions 13, 15, or 23, 25 at Fig. 7, for the purpose of forming contact pads for mounting, rendering such a modification obvious. Becker discloses a vertical leg portion at the sole figure closer to the center of a device for firmly securing same to the device at col. 2, lines 5-10, where the whole horizontal portion of the lead is secured in this fashion, or which would have been obvious to ensure that a load is better supported since any first year physics students would realize that the object would be better supported with the supporting structure centering the weight. Further, the device would take up less area with such a mounting, so that same would have been suggested. The overlapping junction portions (claims 3, 21) are at Fig. 2 of Rehnelt. The vertical let portion at the left-hand side appears to be in the vicinity of the center since it is almost or is, entirely within the periphery of the device (claims 1, 23). As an

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alternative, it would have been obvious to have a vertical portion entirely inside to accommodate larger thermistors, since a larger thermistors would overlap such a portion. For claims 4 and 21, Rehnelt discloses the button shape at Fig. 3.

- 4. Claims 5 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Camp with, further in view of Nagao et a1. The claimed invention is as disclosed above except for the electrode material. Nagao discloses such a material at the abstract as conventional and for improving flash resistance, at col. 6 and table 5. It would have been obvious to employ the well known material in the manner of Nagao to improve the flash resistance.
- 5. Claim 6 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Camp with Becker, or Rehnelt with Camp and Becker et al., further in view of Ikeda et al. The claimed invention is as disclosed as noted above except for the terminal material. Ikeda discloses such a material at col. 10, lines 1-5 as a good elastic material for improving thermistors, such that it would have been obvious to employ the well known material in the manner of Ikeda to improve the elasticity.
- 6. Applicant's arguments filed 5/18/5 have been fully considered but they are not persuasive. Applicant argues that Becker discloses a lead going upward, but this is not correct as the lead could go upwards or downwards. Applicant argues a reference must be employed for motivation, but this is not necessary. Further, Becker discloses the modification and provides motivation as noted above.
- 7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl D. Easthom whose telephone number is (571) 272-1989. The examiner can normally be reached on M-Th, 5:30AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin Enad can be reached on (571) 272-1990. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Karl D Easthom

KARL D. EASTHOM PRIMARY EXAMINER